



ELIZADE UNIVERSITY

FACULTY OF BASIC AND APPLIED SCIENCES

DEPARTMENT: PHYSICAL AND CHEMICAL SCIENCES

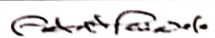
PROGRAMME: BIOCHEMISTRY EXAM TITLE: DEGREE EXAMINATION

COURSE CODE & TITLE: BCH 411 – PHARMACOLOGICAL BIOCHEMISTRY

TIME ALLOWED: 2 hrs

SEMESTER/SESSION: FIRST / 2020/2021

INSTRUCTIONS: Write your matriculation number on the cover page of the exam booklet.


HOD's SIGNATURE

Attempt any (3) of the five (5) questions

1. (a) Write short notes on:

- (i) Flavonoids
- (ii) Anthocyanins
- (iii) Alkaloids
- (iv) Tannins

(b) List and explain four (4) merits and four (4) demerits of the use of medicinal plants over synthetic drugs

(20 marks)

2. (a) Discuss the factors governing the choice of the route of drug administration

(b) With a well-labelled diagram **only**, illustrate the First-Pass effect in the hepatic metabolism of a pharmacological agent.:

(20 marks)

3. (a) What are Xenobiotics?

(b) Describe how the human body protects itself from Xenobiotics

(c) With a suitable diagram **only**, illustrate how drugs interact with biological systems

(20 marks)

4. (a) Describe the main classes of drug metabolizing enzymes

(b) Write briefly on the microscopic location of drug metabolizing enzymes

(c) What are microsomes? Describe the preparation of microsomes

(20 marks)

5. Write notes on:

Phase I and Phase II reactions (using suitable illustrations)

(20 marks)